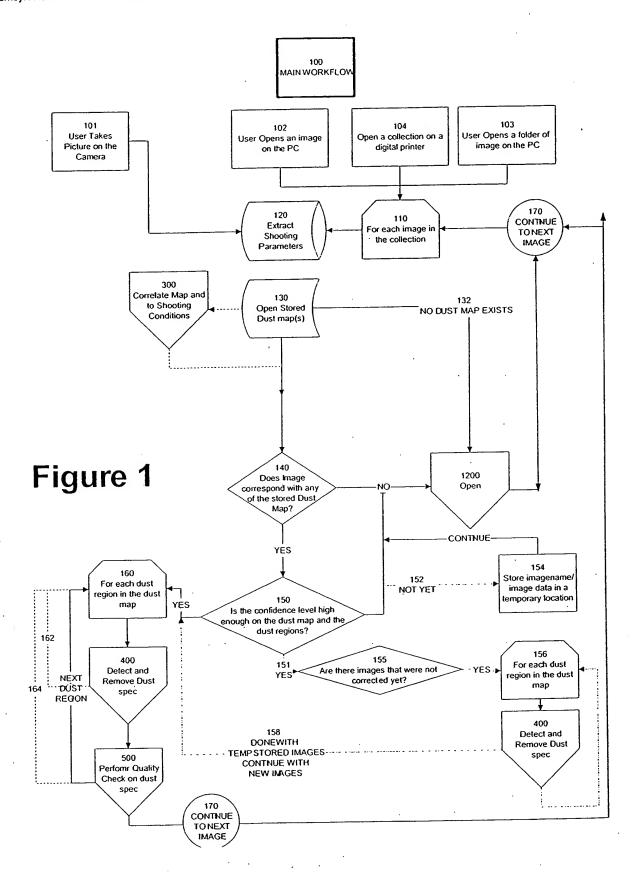
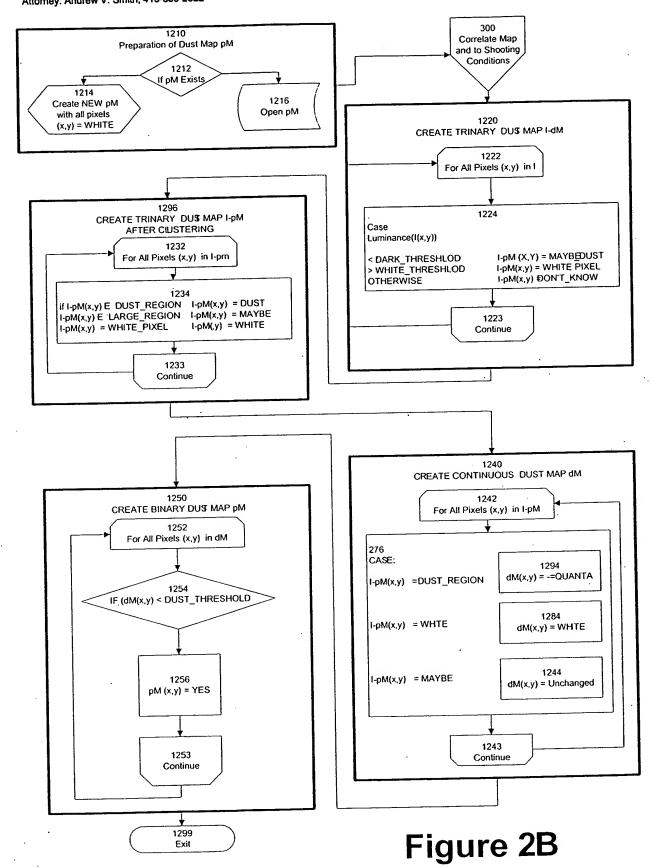
Express Mail: EV331871955US Attorney Docket: 2100874-991320 For: Automated Statistical Self-Calibrating Detection and..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 1 of 22 Attorney: Andrew V. Smith, 415-836-2522



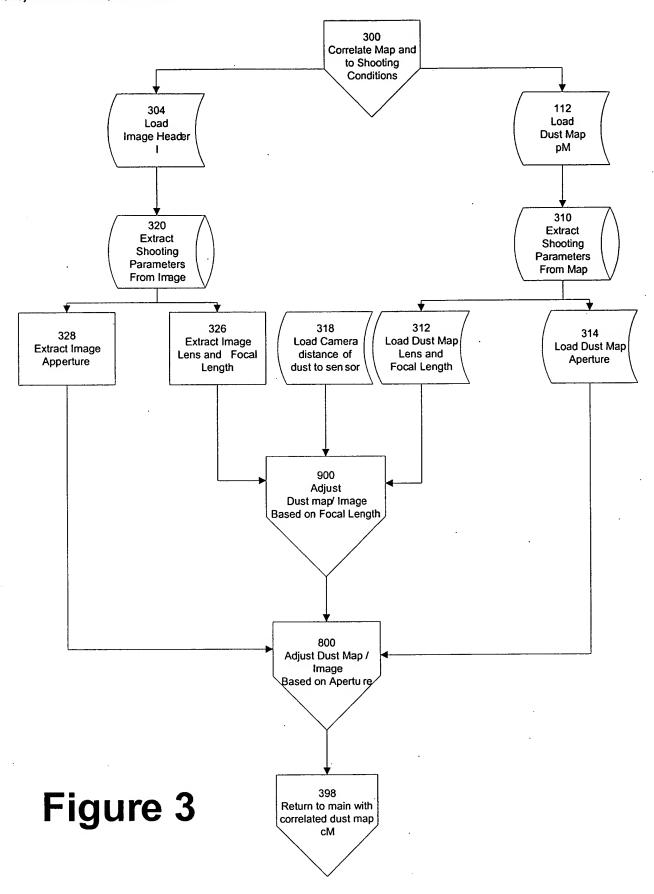
Attorney Docket: 2100874-991320 For: Automated Statistical Self-Calibrating Detection and..., filed September 30, 2003 Inventors: Eran Steinberg, et al., Page 2 of 22 Attorney: Andrew V. Smith, 415-836-2522 240 220 If function called If number of images is ith a single image more than hdp MULTPLE IMAGES 230 Sample Images in 250 a sequence to create an image Schedule = schedule number of images For each Image (I) in the schedule 300 SINGLEIMAGE Correlate Map and to Shooting Conditions If all dust regions have p(Hdp) and all non dust regions have p(Ndp) and all image is covered NOT YET-282 Mark regions with Mark regions 296 high probability as potentially dust 271 Cluster Dust Pixels Continue (YD) non dust (ND) into Dust Specs 284 Add dust regions Add non-dust to the map based regions to the map on f(hdp) based on f(ndp) Continue loop for each image 273 Continue YES 272 Alternative Cluster Dust Pixels into Dust Specs 500 Perform Quality Control of Dust Мар 298 Exit and return in case of a single image Figure 2A

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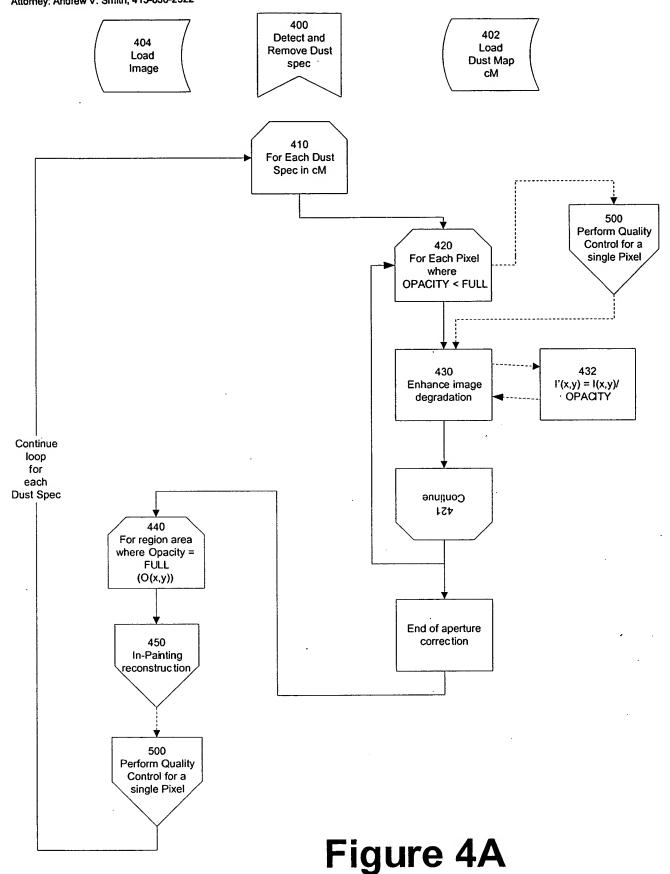
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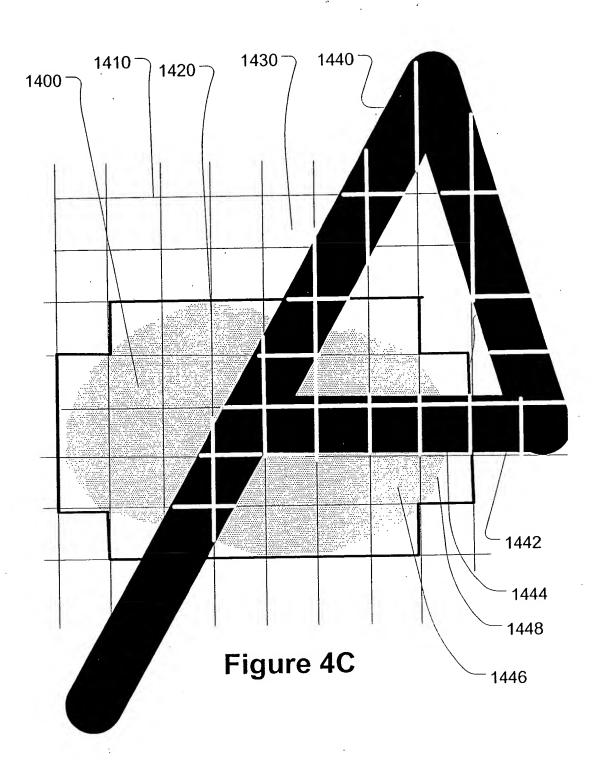


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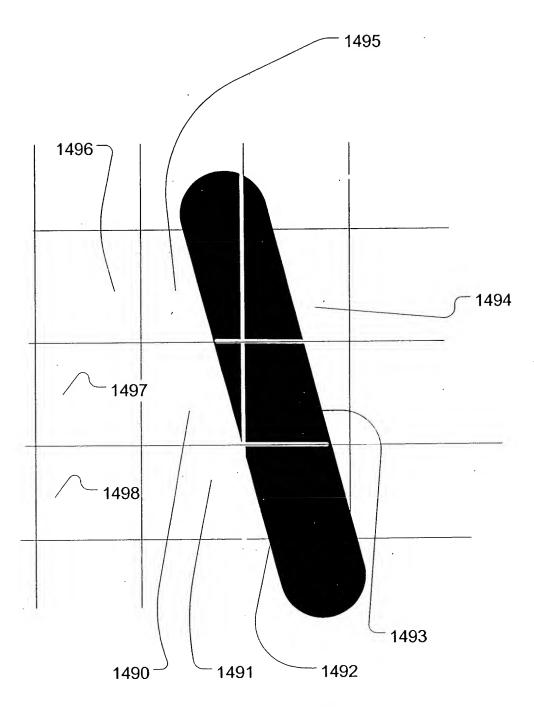


Figure 4D

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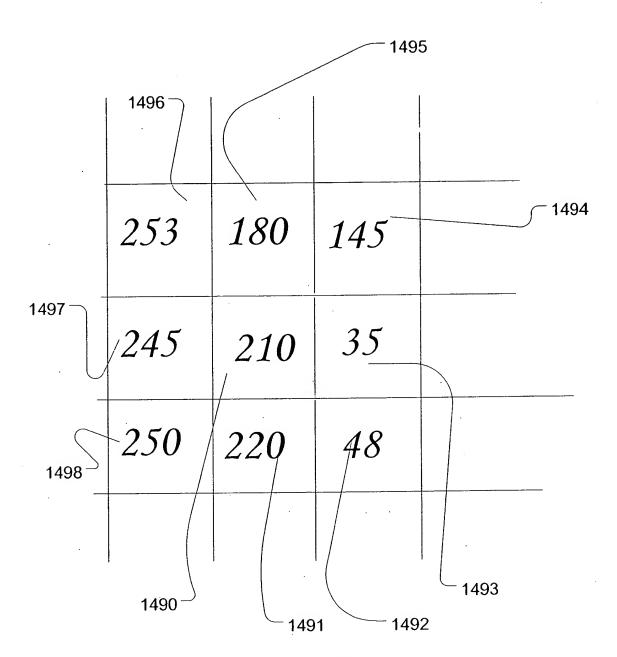


Figure 4E

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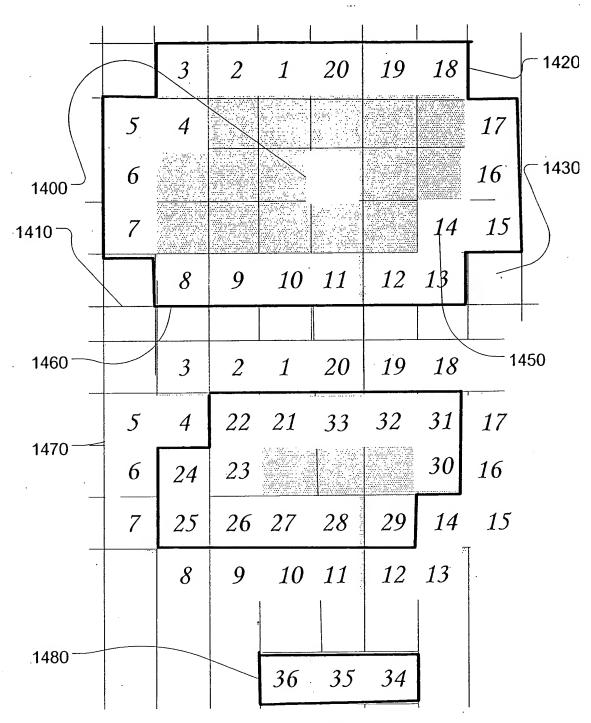


Figure 4F

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Detection and..., filed September 30, 2003
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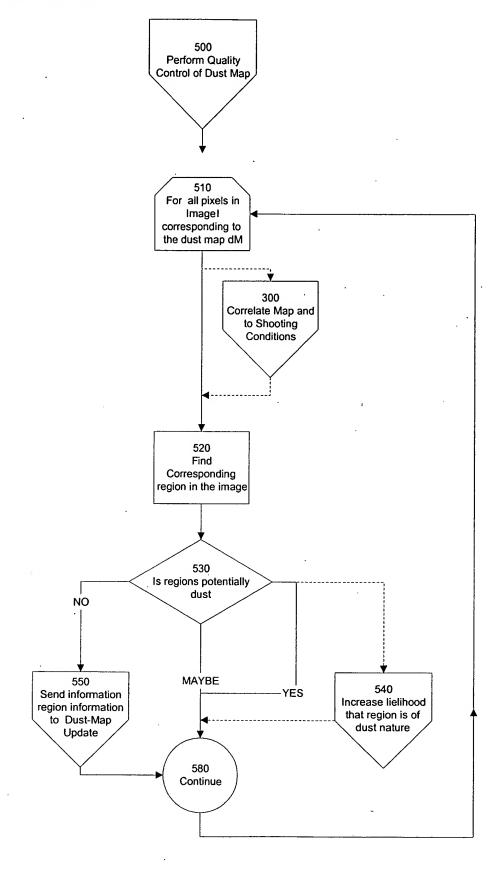
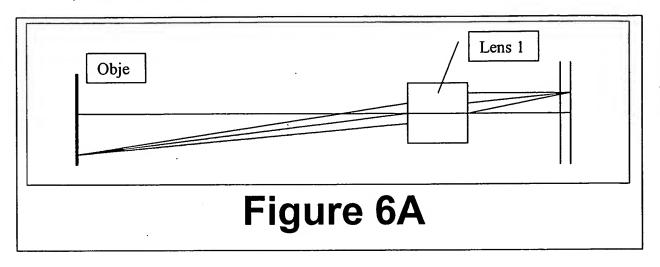
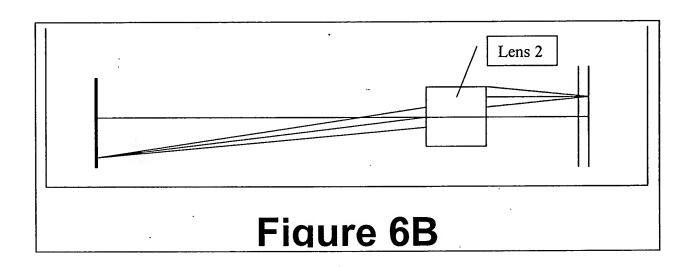
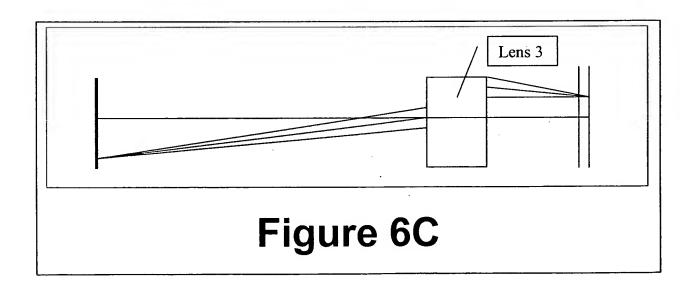


Figure 5

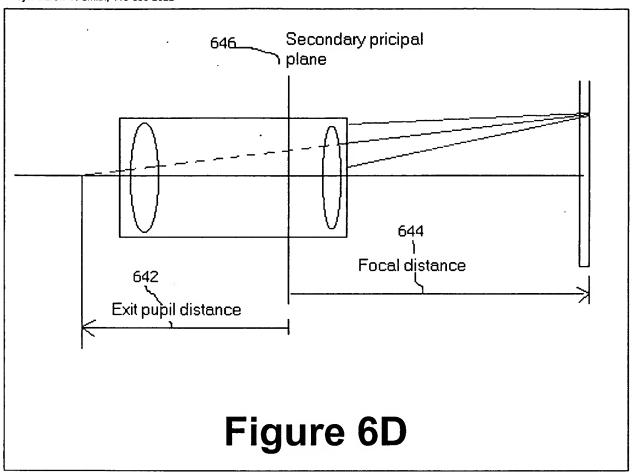
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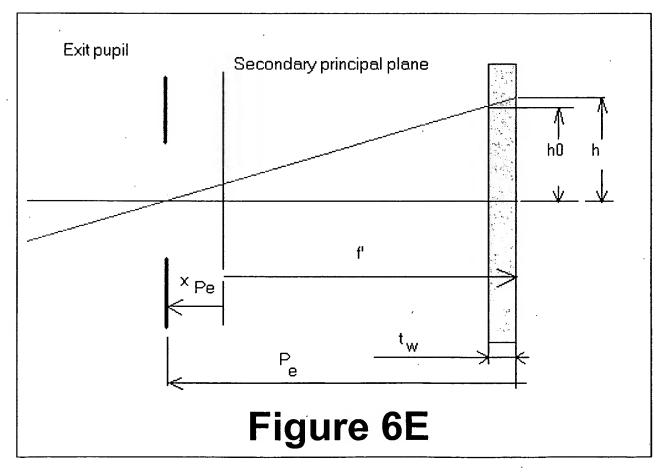




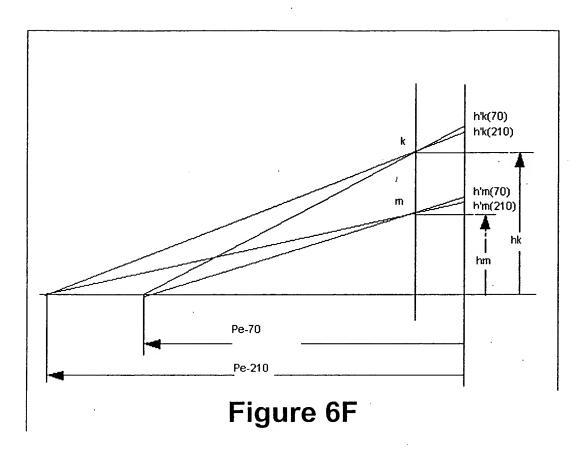


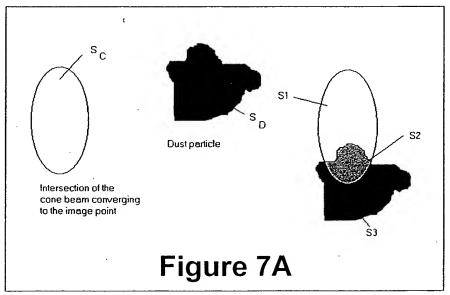
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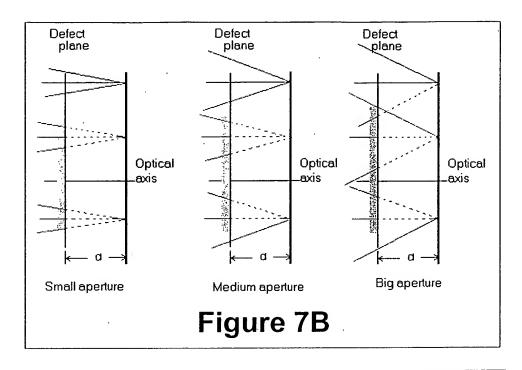


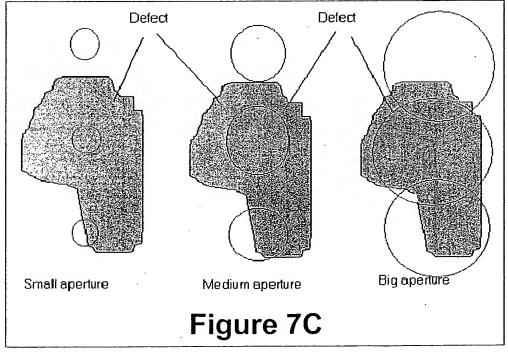
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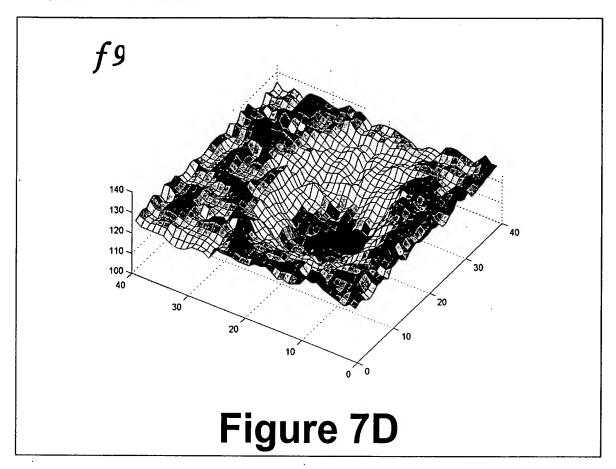


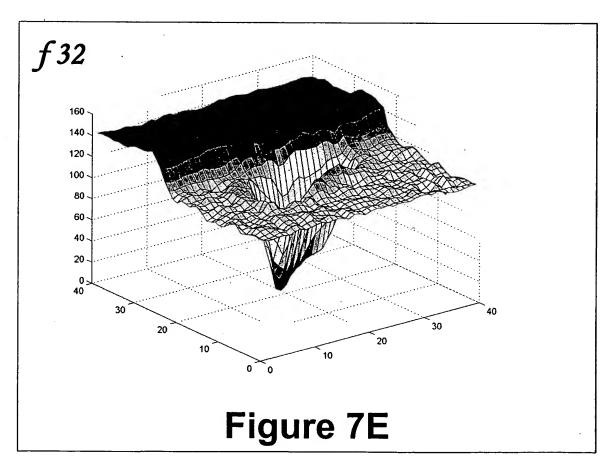
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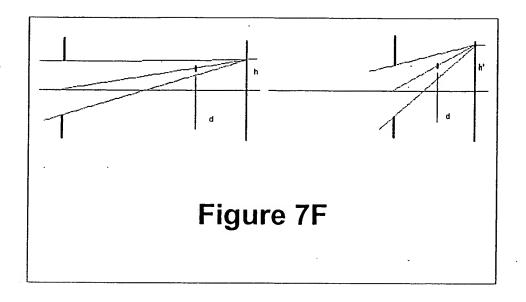


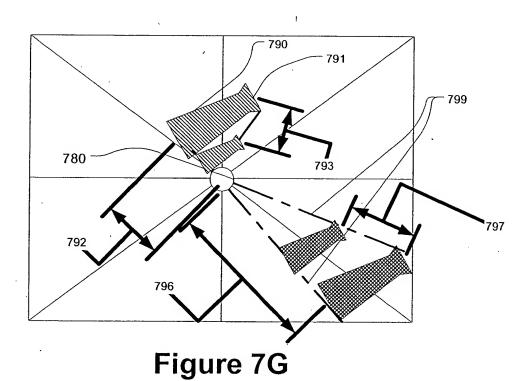
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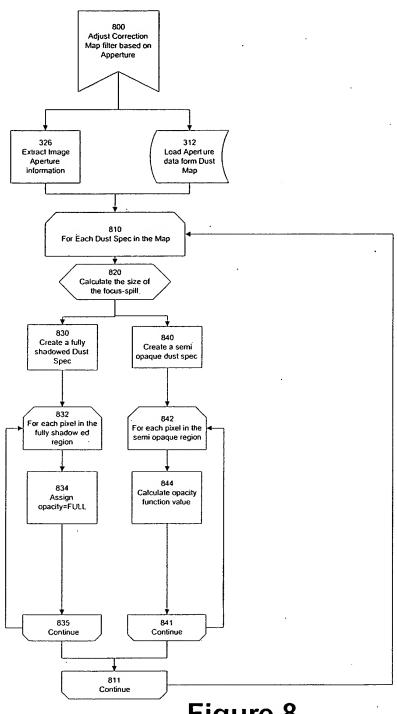


Figure 8

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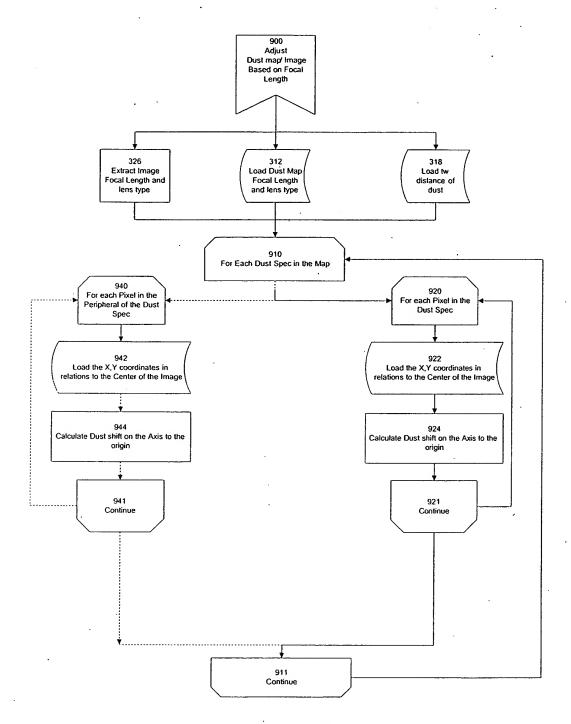


Figure 9

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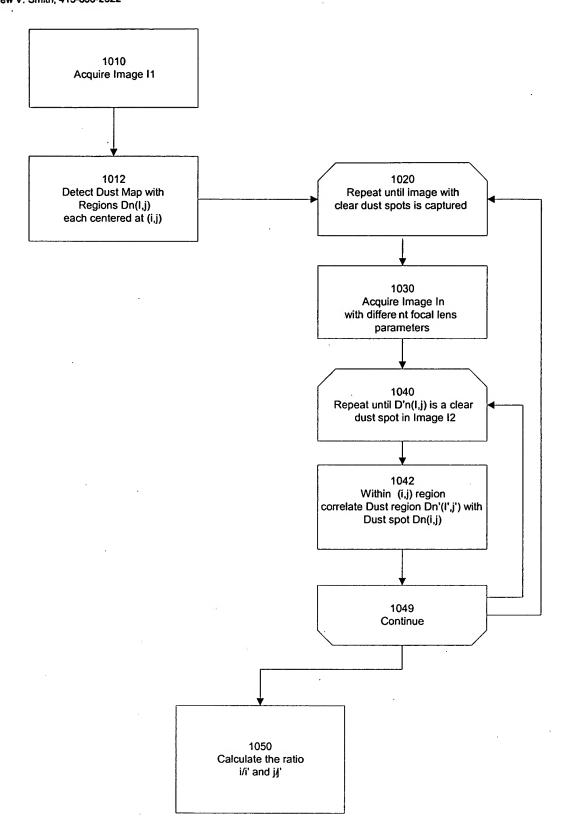
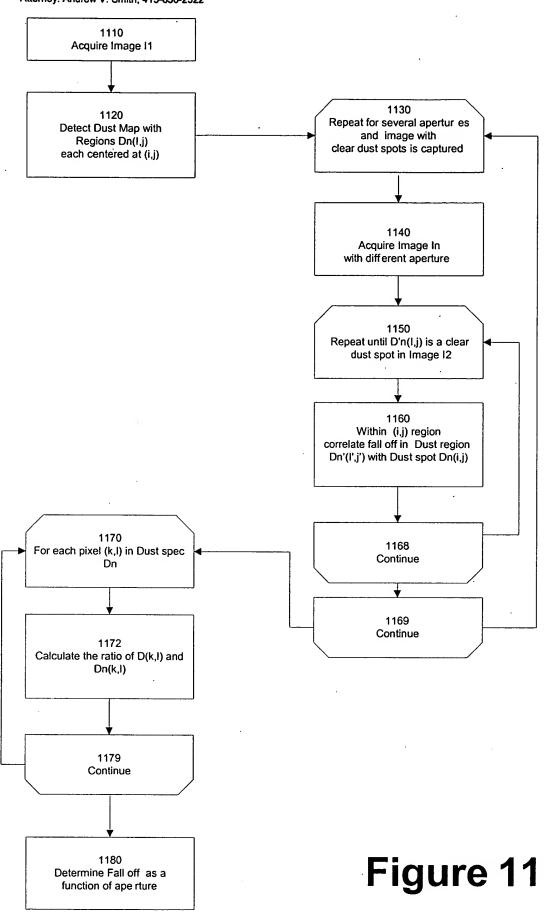


Figure 10

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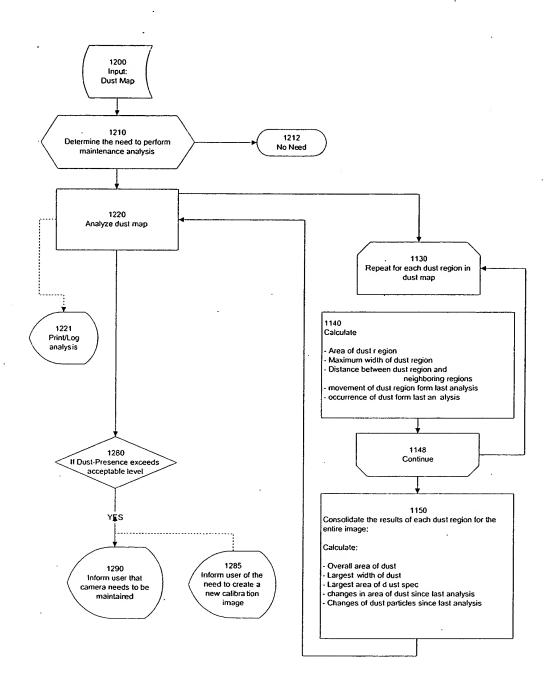


Figure 12